

#0903

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/667990
		Filing Date	09/22/2003
		First Named Inventor	DANIEL P. CRAM
		Art Unit	2829
		Examiner Name	E. KARLSEN
Sheet 1 of 2	Attorney Docket Number	00-0557.2	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Class No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US- 3,767,519	10/23/1973	Kojima et al.	
	B	US- 4,833,402	05/23/1989	Boegh-Petersen	
	C	US- 5,163,834	11/17/1992	Chapin et al.	
	D	US- 5,302,891	04/12/1994	Wood et al.	
	E	US- 5,317,255	05/31/1994	Suyama et al.	
	F	US- 5,492,863	02/20/1996	Higgins, III	
	G	US- 5,574,382	11/12/1996	Kimura	
	H	US- 5,798,655	08/25/1998	Kazama et al.	
	I	US- 5,894,217	04/13/1999	Igarashi et al.	
	J	US- 5,945,834	08/31/1999	Nakata et al.	
	K	US- 6,046,599	04/04/2000	Long et al.	
	L	US- 6,064,217	05/16/2000	Smith	
	M	US- 6,064,218	05/16/2000	Godfrey	
	N	US- 6,072,324	06/06/2000	Farnworth	
	O	US- 6,091,256	07/18/2000	Long et al.	
	P	US- 6,114,864	09/05/2000	Soejima et al.	
	Q	US- 6,259,036 B1	07/10/2001	Farnworth	
	R	US- 6,329,829 B1	12/11/2001	Farnworth et al.	
	S	US- 6,333,555 B1	12/25/2001	Farnworth et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Class No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>1</sup> -Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature	<i>Ernest J. Karlson</i>	Date Considered	<i>Aug. 8, 2005</i>
--------------------	--------------------------	-----------------	---------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

class sub class

PTC/5B/08A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1442/PTD

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/1667490
Filing Date	09/22/2003
First Named Inventor	DANIEL P. CRAM
Art Unit	2829
Examiner Name	E. KARLSEN
Attorney Docket Number	00-0557.2

Sheet 2

2

of 12

**Attorney Docket Number**

100-0557.2

## U. S. PATENT DOCUMENTS

[illegible]

~~C/B 38~~ sub class

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Ernst & Karl in

Date Considered

4.4.8.2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**



Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

**Complete if Known**

Application Number	10/667,990
Filing Date	09/22/2003
First Named Inventor	DANIEL P. CRAM
Art Unit	2812 2829
Examiner Name	KARLSEN, ERNEST F.
Attorney Docket Number	00-0557.02

CLASS / sub  
ELASS

Examiner Signature	<i>Ernest N. Kallen</i>	Date Considered	<i>Aug. 8, 2005</i>
-----------------------	-------------------------	--------------------	---------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**(If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.)**